



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT



SEP 03 2013

Mr. Jeffrey Misenhimer
Visalia Wastewater Treatment
7579 Avenue 288
Visalia, CA 93277

Re: Notice of Minor Title V Permit Modification
District Facility # S-984
Project # S-1132590

Dear Mr. Misenhimer:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued ATCs S-984-20-0 and 21-0 into the Title V operating permit. The ATCs are for two 3 MMBtu/hr Fulton model VTG3000LE natural gas and digester gas-fired boilers.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued ATCs S-984-20-0 and 21-0, emissions increases, and application. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

Enclosures

cc: Gerardo C. Rios, EPA (w/enclosure) via email

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

TITLE V APPLICATION REVIEW

Minor Modification
Project #: S-1132590

Engineer: Jonah Aiyabei
Date: August 13, 2013

Facility Number: S-984
Facility Name: Visalia Wastewater Treatment
Mailing Address: 7579 Avenue 288
Visalia, CA 93277

Contact Name: Jeffrey Misenhimer
Phone: (559) 713-4176

Responsible Official: Jeffrey Misenhimer
Title: Superintendent

I. PROPOSAL

Visalia Wastewater Treatment is proposing a Title V minor permit modification to incorporate the recently issued Authorities to Construct (ATCs) S-984-20-0 and 21-0 into the Title V operating permit. The ATCs are for two 3.0 MMBtu/hr Fulton model VTG3000LE boilers that will be fired on a combination of natural gas and digester gas.

The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements and to provide the legal and factual basis for the proposed revisions.

II. FACILITY LOCATION

The facility is located at 7579 Avenue 288 in Visalia; NW/4 Section 6 Township 19S Range 24E.

III. EQUIPMENT DESCRIPTION

S-984-20-1: 3.0 MMBTU/HR FULTON MODEL VTG3000LE NATURAL GAS AND DIGESTER GAS-FIRED BOILER WITH A BEKAERT LOW NOX BURNER

**S-984-21-1: 3.0 MMBTU/HR FULTON MODEL VTG3000LE NATURAL GAS
AND DIGESTER GAS-FIRED BOILER WITH A BEKAERT LOW NOX BURNER**

IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

V. APPLICABLE REQUIREMENTS

District Rule 2520, Federally Mandated Operating Permits (Adopted June 21, 2001)

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

Visalia Wastewater Treatment currently operates two 3 MMBtu/hr natural gas-fired boilers, under Permit Exempt Equipment Registrations (PEERs) S-984-4-0 and 5-0. The facility has proposed to supplement the fuel with digester gas. While boilers that are less than 5 MMBtu/hr and are fired exclusively on PUC quality natural gas are exempt from permitting, any sized boiler that is fired on digester gas requires a permit. Therefore ATCs S-984-20-0 and 21-0 were issued for the boilers, and the previously issued PEERs will be surrendered to the District.

The subject boilers were existing, and previously permit-exempt, emissions units that were eligible for grandfathered Permits to Operate (PTOs). Whereas grandfathered PTOs could have been issued prior to the ATCs to allow combustion of digester gas, the District decided to streamline the permit issuance process by issuing the ATCs directly. The actions to be implemented in these ATCs therefore only represent minor modifications of existing emissions units.

The permit conditions on the ATCs have been modified as discussed in the following section for incorporation into the Title V permit:

S-984-20-1 and 21-1 (Identical):

Permit condition 1 on the ATCs has been removed since it will no longer be valid after implementation of the ATCs.

Permit conditions 2 through 7 on the ATCs have been added to the proposed modified Title V permit units as conditions 1 through 6.

Permit conditions 8 and 9 on the ATCs have been removed since they are already on the facility-wide permit unit.

Permit conditions 10 through 18 on the ATCs have been removed since they apply only to the one-time source test requirement that has already been conducted. The proposed modified Title V permit units will not have recurring source test requirements.

Permit conditions 19 through 26 on the ATCs have been added to the proposed modified Title V permit units as conditions 7 through 14.

VII. COMPLIANCE

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include;
 - a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
 - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

2. The source's suggested draft permit; and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used.

VIII. ATTACHMENTS

- A. Proposed Modified Title V Operating Permit
- B. Authorities to Construct
- C. Emissions Increases
- D. Application

Visalia Wastewater Treatment
Facility # S-984
Project # S-1132590

ATTACHMENT A

Proposed Modified Title V Operating Permit

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-20-1

EXPIRATION DATE: 03/31/2017

EQUIPMENT DESCRIPTION:

3.0 MMBTU/HR FULTON MODEL VTG3000LE NATURAL GAS AND DIGESTER GAS-FIRED BOILER WITH A BEKAERT LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. This boiler shall be equipped with a non-resettable fuel-use meter. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction [District Rule 4102]
3. Fuel use shall not exceed 30 billion Btus per year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from this boiler shall not exceed any of the following limits: 0.011 lb-NO_x/MMBtu (9 ppmv-NO_x @ 3% O₂), 0.048 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.08 lb CO/MMBtu (100 ppmv @ 3% O₂), or 0.0042 lb-VOC/MMBtu (10 ppmv @ 3% O₂). [District Rule 2201] Federally Enforceable Through Title V Permit
5. The sulfur content of the digester gas shall not exceed 200 ppmv (as H₂S). [District Rule 2201] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4307] Federally Enforceable Through Title V Permit
8. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4307] Federally Enforceable Through Title V Permit
9. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4307] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

10. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4307] Federally Enforceable Through Title V Permit
11. The permittee shall monitor and record any operational characteristics as recommended by the manufacturer. [District Rule 4307] Federally Enforceable Through Title V Permit
12. Records of annual fuel-use shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Records of all digester gas sulfur content tests shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-21-1

EXPIRATION DATE: 03/31/2017

EQUIPMENT DESCRIPTION:

3.0 MMBTU/HR FULTON MODEL VTG3000LE NATURAL GAS AND DIGESTER GAS-FIRED BOILER WITH A BEKAERT LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. This boiler shall be equipped with a non-resettable fuel-use meter. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction [District Rule 4102]
3. Fuel use shall not exceed 30 billion Btus per year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Emissions from this boiler shall not exceed any of the following limits: 0.011 lb-NO_x/MMBtu (9 ppmv-NO_x @ 3% O₂), 0.048 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.08 lb CO/MMBtu (100 ppmv @ 3% O₂), or 0.0042 lb-VOC/MMBtu (10 ppmv @ 3% O₂). [District Rule 2201] Federally Enforceable Through Title V Permit
5. The sulfur content of the digester gas shall not exceed 200 ppmv (as H₂S). [District Rule 2201] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4307] Federally Enforceable Through Title V Permit
8. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4307] Federally Enforceable Through Title V Permit
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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

10. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4307] Federally Enforceable Through Title V Permit
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13. Records of all digester gas sulfur content tests shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

Visalia Wastewater Treatment
Facility # S-984
Project # S-1132590

ATTACHMENT B

Authorities to Construct



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



AUTHORITY TO CONSTRUCT

PERMIT NO: S-984-20-0

ISSUANCE DATE: 08/03/2012

LEGAL OWNER OR OPERATOR: VISALIA WASTEWATER TREATMENT
MAILING ADDRESS: VISALIA WASTEWATER TREATMENT PLANT
7579 AVENUE 288
VISALIA, CA 93277

LOCATION: 7579 AVENUE 288
VISALIA, CA 93277

EQUIPMENT DESCRIPTION:

3.0 MMBTU/HR FULTON MODEL VTG3000LE NATURAL GAS AND DIGESTER GAS-FIRED BOILER WITH A BEKAERT LOW NOX BURNER

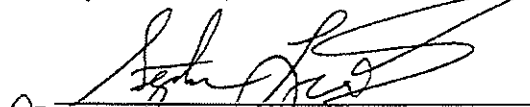
CONDITIONS

1. Upon implementation of this Authority to Construct, PEER S-984-4-0 shall be cancelled. [District Rule 2201]
2. This boiler shall be equipped with a non-resettable fuel-use meter. [District Rule 2201]
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction [District Rule 4102]
4. Fuel use shall not exceed 30 billion Btus per year. [District Rule 2201]
5. Emissions from this boiler shall not exceed any of the following limits: 0.011 lb-NOx/MMBtu (9 ppmv-NOx @ 3% O₂), 0.048 lb-SOx/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.08 lb CO/MMBtu (100 ppmv @ 3% O₂), or 0.0042 lb-VOC/MMBtu (10 ppmv @ 3% O₂). [District Rule 2201]
6. The sulfur content of the digester gas shall not exceed 200 ppmv (as H₂S). [District Rule 2201]
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
8. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
9. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCD


DAVID WARNER, Director of Permit Services

S-984-20-0, Aug 3 2012 2:24PM - ROEDERS : Joint Inspection Required with ROEDERS

10. Source testing to measure NO_x and CO emissions from this unit shall be conducted within 60 days of initial start-up. [District Rule 4307]
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
12. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rule 4307]
13. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4307]
14. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4307]
15. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rule 4307]
16. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rule 4307]
17. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4307]
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
19. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4307]
20. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4307]
21. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4307]
22. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4307]
23. The permittee shall monitor and record any operational characteristics as recommended by the manufacturer. [District Rule 4307]
24. Records of annual fuel-use shall be maintained. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

25. Records of all digester gas sulfur content tests shall be maintained. [District Rule 2201]
26. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT


HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: S-984-21-0

ISSUANCE DATE: 08/03/2012

LEGAL OWNER OR OPERATOR: VISALIA WASTEWATER TREATMENT
MAILING ADDRESS: VISALIA WASTEWATER TREATMENT PLANT
7579 AVENUE 288
VISALIA, CA 93277

LOCATION: 7579 AVENUE 288
VISALIA, CA 93277

EQUIPMENT DESCRIPTION:

3.0 MMBTU/HR FULTON MODEL VTG3000LE NATURAL GAS AND DIGESTER GAS-FIRED BOILER WITH A BEKAERT LOW NOX BURNER

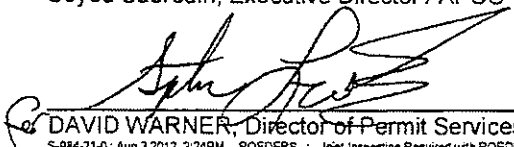
CONDITIONS

1. Upon implementation of this Authority to Construct, PEER S-984-5-0 shall be cancelled. [District Rule 2201]
2. This boiler shall be equipped with a non-resettable fuel-use meter. [District Rule 2201]
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction [District Rule 4102]
4. Fuel use shall not exceed 30 billion Btus per year. [District Rule 2201]
5. Emissions from this boiler shall not exceed any of the following limits: 0.011 lb-NOx/MMBtu (9 ppmv-NOx @ 3% O₂), 0.048 lb-SOx/MMBtu, 0.0076 lb-PM10/MMBtu, 0.08 lb CO/MMBtu (100 ppmv @ 3% O₂), or 0.0042 lb-VOC/MMBtu (10 ppmv @ 3% O₂). [District Rule 2201]
6. The sulfur content of the digester gas shall not exceed 200 ppmv (as H₂S). [District Rule 2201]
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
8. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
9. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO


DAVID WARNER, Director of Permit Services

S-984-21-0: Aug 3 2012 2:24PM - ROEDERS : Joint Inspection Required with ROEDERS

10. Source testing to measure NOx and CO emissions from this unit shall be conducted within 60 days of initial start-up. [District Rule 4307]
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
12. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rule 4307]
13. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4307]
14. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4307]
15. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rule 4307]
16. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rule 4307]
17. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 4307]
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
19. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4307]
20. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4307]
21. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4307]
22. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4307]
23. The permittee shall monitor and record any operational characteristics as recommended by the manufacturer. [District Rule 4307]
24. Records of annual fuel-use shall be maintained. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

25. Records of all digester gas sulfur content tests shall be maintained. [District Rule 2201]
26. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

Visalia Wastewater Treatment
Facility # S-984
Project # S-1132590

ATTACHMENT C

Emissions Increases

Visalia Wastewater Treatment
Facility # S-984
Project # S-1132590

The emissions increases for the two permit units are as summarized in the following table:

Permit Unit	SSIPE (lb/yr)				
	NOx	VOC	CO	SOx	PM10
S-984-20-0	330	126	2,400	1,440	228
S-984-21-0	330	126	2,400	1,440	228
TOTAL	660	252	4,800	2,880	456

Visalia Wastewater Treatment
Facility # S-984
Project # S-1132590

ATTACHMENT D

Application

San Joaquin Valley Air Pollution Control District

www.valleyair.org


Received

JUN 11 2013

SJV44800

Permit Application For:

[] ADMINISTRATIVE AMENDMENT [X] MINOR MODIFICATION [] SIGNIFICANT MODIFICATION

1. PERMIT TO BE ISSUED TO: City of Visalia Water Conservation Plant	
2. MAILING ADDRESS: STREET/P.O. BOX: 7579 Avenue 288 CITY: Visalia STATE: CA 9-DIGIT ZIP CODE: 93277	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: 7579 Avenue 288 CITY: Visalia NW ¼ SECTION 6 TOWNSHIP 19S RANGE 24E	INSTALLATION DATE: 2012
4. GENERAL NATURE OF BUSINESS: Wastewater Treatment	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary) Incorporate Permit S-984-20-0 (Boiler #1) and S-984-21-0 (Boiler #2) into Title V Permit.	
6. TYPE OR PRINT NAME OF APPLICANT: Jeffrey B. Misenhimer	TITLE OF APPLICANT: Plant Superintendent
7. SIGNATURE OF APPLICANT: 	DATE: 06/07/2013 PHONE: (559) 713-4176 FAX: (559) 713-4826 EMAIL: jmisenhimer@ci.visalia.ca.us

For APCD Use Only:

DATE STAMP	FILING FEE RECEIVED: \$ _____ CHECK#: _____ DATE PAID: _____ PROJECT NO: S-1132590 FACILITY ID: S-984
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**San Joaquin Valley
Unified Air Pollution Control District**

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

☐ SIGNIFICANT PERMIT MODIFICATION
☒ MINOR PERMIT MODIFICATION

☐ ADMINISTRATIVE
AMENDMENT

COMPANY NAME:	FACILITY ID: S-984
1. Type of Organization: <input type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input checked="" type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: City of Visalia Water Conservation Plant	
3. Agent to the Owner: Jeffrey B. Misenhimer	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

- ☒ Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- ☒ Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- ☒ Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- ☒ Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Jeffrey B. Misenhimer
Signature of Responsible Official

06/07/2013
Date

Jeffrey B. Misenhimer
Name of Responsible Official (please print)

Superintendent
Title of Responsible Official (please print)